

What we claim is:

1           1.       A method for operating a server in a computer network to enable presentation of  
2 interactive applications, the network including at least a first server, interactive applications and one  
3 or more reception systems, the reception systems being capable of communicating with the server and  
4 receiving applications from the server, the reception systems, respectively, including a display  
5 interface, as well as reception system software, operating system software and CPU for presenting  
6 applications to respective users, the method comprising steps of:

- 7                   a.     Providing on the network one or more applications employing objects;  
8                   b.     Storing the objects on the network;  
9                   c.     Supplying objects from the server for applications employing objects requested  
10 at a reception system to the extent the objects for the requested applications are unavailable at the  
11 reception system;  
12                   d.     Preparing the applications employing objects so that they may be executed at the  
13 reception systems independently of the respective reception system CPU type and operating system  
14 type; and  
15                   e.     Executing the applications employing objects at the respective reception systems  
16 for presentation at the respective reception system interfaces.

17           2.       The method of claim 1 wherein preparing the applications so that they may executed  
18 independently of the respective reception system CPU type and operating system type includes steps  
19 for preparing the applications in a high-level programming language.

20           3.       The method of claim 2 wherein executing the applications at the respective reception  
21 systems includes steps for interpreting the applications during processing at the respective reception  
22 systems.

23           4.       The method of claim 3 including steps for dividing at least the applications employing  
24 objects into sections.

1           5.       The method of claim 4 wherein dividing the applications into sections includes steps  
2 for forming the application sections with objects, the objects including display data and/or program  
3 code for generating display of respective application sections.

1           6.       The method of claim 5 wherein forming the application sections with objects includes  
2 steps for arranging the objects as multiple object types.

1           7.       The method of claim 6 wherein arranging the objects as multiple object types includes  
2 steps for providing an object type for defining program information used in supporting execution of  
3 the respective applications at the respective reception systems.

1           8.       The method of claim 7 wherein arranging the objects as multiple object types includes  
2 steps for providing an object type for defining formatting of the respective applications at respective  
3 reception system display interfaces.

1           9.       The method of claim 8 wherein arranging the objects as multiple object types includes  
2 steps for providing an object type for defining application elements that may appear at respective  
3 reception system display interfaces.

1           10.      The method of claim 9 wherein arranging the objects as multiple object types includes  
2 steps for providing an object type for defining a make-up template for application sections presented  
3 at the respective reception system display interfaces.

1           11.      The method of claim 10 wherein arranging the objects as multiple object types includes  
2 steps for providing an object type for defining window elements that may appear at respective  
3 reception system display interfaces.

1           12.      The method of claim 7 wherein arranging the objects as multiple object types includes  
2 steps for providing the object types with a predetermined structure which comprises a header and one  
3 or more information segment which define the respective objects.

1 13. The method of claims 12 wherein forming the application sections with objects includes  
2 steps for embedding objects within objects.

1 14. The method of claim 12 wherein providing the object types with a predetermined  
2 structure comprising a header and one or more information segment includes steps for structuring  
3 headers with a sequence of information which identifies respective objects.

1 15. The method of claim 14 wherein structuring object headers includes steps for structuring  
2 headers with information which indicates the version of respective objects.  
3

4 16. The method of claim 15 wherein structuring object headers includes steps for structuring  
5 headers with information which indicates intended use of respective objects.

1 17. The method of claim 4 wherein preparing the applications in a high-level programing  
2 language includes steps for compiling the applications into a data stream which is organized as objects.  
3

4 18. The method of claim 4 wherein preparing the applications in a high-level programing  
5 language includes steps for providing the applications with a prescribed program structure which  
6 includes multiple sections.  
7

8 19. The method of claim 18 wherein providing the applications with a prescribed program  
9 structure having multiple sections includes steps for providing the application programs with a code  
10 section.  
11

1 20. The method of claim 19 wherein providing applications with prescribed program  
2 structure having code sections includes steps for providing respective application program code  
3 sections with one or more procedures for supporting system services, the procedures including a key  
4 word for identifying the respective procedures.

1 21. The method of claim 20 wherein providing application code sections with one or more  
2 procedures respectively identified by key words includes steps for providing the key words as verbs.

1           22.     The method of claim 21 wherein providing application code sections with one or more  
2 procedures respectively identified by verbs includes steps for enabling the name of a respective  
3 procedures to function as the procedure identifying verb.

1           23.     The method of claim 20 wherein providing applications with prescribed program  
2 structure having code sections further includes steps for providing respective application program  
3 structure with a data structure section, the program data structure section identifying the data  
4 structure for the application program.

1           24.     The method of claim 23 wherein providing applications with prescribed program  
2 structure having data structure section includes steps for identifying variables within the data structure  
3 as respective strings.

1           25.     The method of claim 24 wherein providing applications with prescribed program  
2 structure having a data structure section identifying variables as respective strings includes steps for  
3 providing string variables of multiple types.

1           26.     The method of claim 25 wherein providing string variable in multiple types includes  
2 steps for providing variables as field variables and array variables.

1           27.     The method of claim 23 wherein providing applications with prescribed program  
2 structure having code sections and data sections further includes steps for providing respective  
3 application program structure with respective header sections, the respective program structure header  
4 sections identifying the respective program names.

1           28.     A method for operating a server in a computer network to enable presentation of  
2 interactive applications, the network including at least a first server, interactive applications and one  
3 or more reception systems, the reception systems being capable of communicating with the server and  
4 receiving applications from the server, the reception systems, respectively, including a display  
5 interface, as well as reception system software, operating system software and CPU for presenting  
6 applications to respective users, the method comprising steps of:

7           a.     Providing on the network one or more applications employing objects;

- 8                   b.    Storing the objects on the network;
- 9                   c.    Supplying objects from the server for applications employing objects requested
- 10                  at a reception system to the extent the objects for the requested applications are unavailable at the
- 11                  reception system;
- 12                  d.    Preparing the applications employing objects in a high-level programming language;
- 13                  and
- 14                  e.    Executing the applications employing objects at the respective reception systems
- 15                  by interpreting the applications during processing at the respective reception system such that the
- 16                  applications employing objects may be presented at the respective reception systems independently
- 17                  of the reception system CPU type and operating system type.

1                  29.    The method of claim 28 wherein steps for dividing at least the applications employing

2                  objects into sections, includes steps for forming the application sections with objects, the objects

3                  including display data and/or program code for generating display of respective application sections.

4                  30.    The method of claim 29 wherein preparing the applications in a high-level programming

5                  language includes steps for providing the applications with a prescribed program structure which

6                  includes multiple sections.

7                  31.    The method of claim 31 wherein providing the applications with a prescribed program

8                  structure having multiple sections includes steps for providing the applications with a code section.

9                  32.    The method of claim 31 wherein providing applications with prescribed program

10                  structure having code sections includes steps for providing respective application program code

11                  sections with one or more procedures for supporting system services, the procedures including

12                  respective key words for identifying the procedures.

13                  33.    The method of claim 32 wherein providing application code sections with one or more

14                  procedures identified by respective key words includes steps for enabling the name of a respective

15                  procedures to function as the procedure identifying key word.

34. The method of claim 32 wherein providing applications with prescribed program structure having code sections further includes steps for providing the application program structure with a data structure section, the program data structure section identifying the data structure for the respective application programs.

35. The method of claim 34 wherein providing the program structure with a data section includes steps for providing data variables as string variable of multiple types, the multiple types including field variables and array variables.

36. The method of claim 33 wherein providing applications with prescribed program structures having respective code sections and data sections further includes steps for providing respective application program structures with a header section, the program structure header section identifying the program name.

37. A method for operating a server in a computer network to enable presentation of interactive applications, the network including at least a first server, interactive applications and one or more reception systems, the reception systems being capable of communicating with the server and receiving applications from the server, the reception systems, respectively, including a display interface, as well as reception system software, operating system software and CPU for presenting applications to respective users, the method comprising steps of:

- Providing on the network one or more applications employing objects;
- Preparing the applications employing objects in a high-level programming language;

and

c. Executing the applications employing objects at the respective reception systems by interpreting the applications during processing at the respective reception system such that the applications employing objects may be presented at the respective receptions systems independently of the reception system CPU type and operating system type.

38. The method of claim 37 wherein steps for dividing at least the applications employing objects into sections, includes steps for forming the application sections with objects, the objects including display data and/or program code for generating display of respective application sections.

1 39. The method of claim 38 wherein preparing the applications in a high-level programming  
2 language includes steps for providing the applications with a prescribed program structure which  
3 includes multiple sections.

1 40. The method of claim 39 wherein providing the applications with a prescribed program  
2 structure having multiple sections includes steps for providing the applications with a code section.

1 *Sub A4* 41. The method of claim 40 wherein providing applications with prescribed program  
2 structure having code sections includes steps for providing respective application program code  
3 sections with one or more procedures for supporting system services, the procedures including a verb  
4 for identifying the procedure.

1 *Sub A5* 42. The method of claim 42 wherein providing application code sections with one or more  
2 procedures respectively identified by key words includes steps for enabling the name of a respective  
3 procedure to function as the procedure identifying key words.

1 43. The method of claim 42 wherein providing applications with prescribed program  
2 structure having code sections further includes steps for providing respective application program  
3 structure with a data structure section, the program data structure section identifying the data  
4 structure for the application program.

1 44. The method of claim 43 wherein providing string variable in multiple types includes  
2 steps for providing variables as field variables and array variables.

1 45. The method of claim 44 wherein providing applications with prescribed program  
2 structure having code sections and data sections further includes steps for providing respective  
3 application program structure with a header section, the program structure header section identifying  
4 the program name.